

# Carlos Garcia-Martinez

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

1,364  
citations

18  
h-index

36  
g-index

51  
ext. papers

1,591  
ext. citations

4.7  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
44	Global and local real-coded genetic algorithms based on parent-centric crossover operators. <i>European Journal of Operational Research</i> , <b>2008</b> , 185, 1088-1113	5.6	220
43	A taxonomy and an empirical analysis of multiple objective ant colony optimization algorithms for the bi-criteria TSP. <i>European Journal of Operational Research</i> , <b>2007</b> , 180, 116-148	5.6	206
42	Memetic algorithms for continuous optimisation based on local search chains. <i>Evolutionary Computation</i> , <b>2010</b> , 18, 27-63	4.3	131
41	Hybrid metaheuristics with evolutionary algorithms specializing in intensification and diversification: Overview and progress report. <i>Computers and Operations Research</i> , <b>2010</b> , 37, 481-497	4.6	123
40	Hybrid Metaheuristics Based on Evolutionary Algorithms and Simulated Annealing: Taxonomy, Comparison, and Synergy Test. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2012</b> , 16, 787-800	15.6	57
39	An iterated greedy algorithm for the large-scale unrelated parallel machines scheduling problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1829-1841	4.6	56
38	An artificial bee colony algorithm for the maximally diverse grouping problem. <i>Information Sciences</i> , <b>2013</b> , 230, 183-196	7.7	44
37	Since CEC 2005 competition on real-parameter optimisation: a decade of research, progress and comparative analysis weakness. <i>Soft Computing</i> , <b>2017</b> , 21, 5573-5583	3.5	41
36	Tabu-enhanced iterated greedy algorithm: A case study in the quadratic multiple knapsack problem. <i>European Journal of Operational Research</i> , <b>2014</b> , 232, 454-463	5.6	39
35	Iterated greedy for the maximum diversity problem. <i>European Journal of Operational Research</i> , <b>2011</b> , 214, 31-38	5.6	38
34	Optimizing network attacks by artificial bee colony. <i>Information Sciences</i> , <b>2017</b> , 377, 30-50	7.7	37
33	Arbitrary function optimisation with metaheuristics. <i>Soft Computing</i> , <b>2012</b> , 16, 2115-2133	3.5	29
32	An alternative artificial bee colony algorithm with destructive/nondestructive neighbourhood operator for the problem of composing medical crews. <i>Information Sciences</i> , <b>2016</b> , 326, 215-226	7.7	24
31	Role differentiation and malleable mating for differential evolution: an analysis on large-scale optimisation. <i>Soft Computing</i> , <b>2011</b> , 15, 2109-2126	3.5	24
30	Tabu search with strategic oscillation for the quadratic minimum spanning tree. <i>IIE Transactions</i> , <b>2014</b> , 46, 414-428		19
29	An Empirical Analysis of Multiple Objective Ant Colony Optimization Algorithms for the Bi-criteria TSP. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 61-72	0.9	19
28	Strategic oscillation for the quadratic multiple knapsack problem. <i>Computational Optimization and Applications</i> , <b>2014</b> , 58, 161-185	1.4	18

27	A fuzzy model to evaluate the suitability of installing an enterprise resource planning system. <i>Information Sciences</i> , <b>2009</b> , 179, 2333-2341	7.7	18
26	An Artificial Bee Colony Algorithm for the Unrelated Parallel Machines Scheduling Problem. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 143-152	0.9	18
25	Extremely high-dimensional optimization with MapReduce: Scaling functions and algorithm. <i>Information Sciences</i> , <b>2017</b> , 415-416, 110-127	7.7	17
24	A simulated annealing method based on a specialised evolutionary algorithm. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 573-588	7.5	17
23	Evaluating a local genetic algorithm as context-independent local search operator for metaheuristics. <i>Soft Computing</i> , <b>2010</b> , 14, 1117-1139	3.5	17
22	GRASP with path-relinking for the non-identical parallel machine scheduling problem with minimising total weighted completion times. <i>Annals of Operations Research</i> , <b>2012</b> , 201, 383-401	3.2	15
21	Local Search Based on Genetic Algorithms <b>2007</b> , 199-221		11
20	A genetic algorithm for the minimum generating set problem. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 48, 254-264	7.5	10
19	Improving essay peer grading accuracy in massive open online courses using personalized weights from student's engagement and performance. <i>Journal of Computer Assisted Learning</i> , <b>2019</b> , 35, 110-120	3.8	10
18	The firefighter problem: Empirical results on random graphs. <i>Computers and Operations Research</i> , <b>2015</b> , 60, 55-66	4.6	9
17	JCLEC-MO: A Java suite for solving many-objective optimization engineering problems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2019</b> , 81, 14-28	7.2	8
16	GRASP with exterior path-relinking and restricted local search for the multidimensional two-way number partitioning problem. <i>Computers and Operations Research</i> , <b>2017</b> , 78, 243-254	4.6	8
15	Heuristics for interesting class association rule mining a colorectal cancer database. <i>Information Processing and Management</i> , <b>2020</b> , 57, 102207	6.3	7
14	The Firefighter Problem: Application of Hybrid Ant Colony Optimization Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 218-229	0.9	7
13	Real-parameter crossover operators with multiple descendents: An experimental study. <i>International Journal of Intelligent Systems</i> , <b>2008</b> , 23, 246-268	8.4	7
12	100 Million dimensions large-scale global optimization using distributed GPU computing <b>2016</b> ,		7
11	A Local Genetic Algorithm for Binary-Coded Problems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 192-201	0.9	5
10	Randomized greedy multi-start algorithm for the minimum common integer partition problem. <i>Engineering Applications of Artificial Intelligence</i> , <b>2016</b> , 50, 226-235	7.2	4

9	A GA-based multiple simulated annealing <b>2010</b> ,		4
8	Continuous Variable Neighbourhood Search Algorithm Based on Evolutionary Metaheuristic Components: A Scalability Test <b>2009</b> ,		4
7	Iterated Greedy Algorithms for the Maximal Covering Location Problem. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 172-181	0.9	3
6	Classification Rule Mining with Iterated Greedy. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 585-596	0.9	3
5	A two-stage constructive method for the unweighted minimum string cover problem. <i>Knowledge-Based Systems</i> , <b>2015</b> , 77, 103-113	7.3	2
4	P system model optimisation by means of evolutionary based search algorithms <b>2010</b> ,		2
3	Analysing the significance of no free lunch theorems on the set of real-world binary problems <b>2011</b> ,		2
2	Simulated annealing based on local genetic search <b>2009</b> ,		2
1	An Iterated Greedy Algorithm for Improving the Generation of Synthetic Patterns in Imbalanced Learning. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 513-524	0.9	1